

### **IN THE SPECIFICATION**

Replace the paragraph beginning at page 6, line 14, as follows:

wherein M is a Group VIII metal;  $R_1$  [[R1]],  $R_2$  [[R2]], and  $R_3$  [[R3]] are substituents on the phosphine ligand and are selected from hydrogen, alkyl, aryl, arylalkyl, and arylalkyl cycloaromatic group; X is selected from the group consisting of aryl sulphonato, alkyl sulphonato, aryl carbonate, alkyl carbonate, formate, and a halide selected from the group consisting of [[C1]] Cl, Br, I; N-O is a semilabile anionic chelating ligand containing a ~~N-donor and O-group~~ an N donor and O<sup>-</sup> group;  $1 < n < 10$ ; to actually anchor the complex to the interior of the solid matrix, to obtain the immobilized metal complex catalyst.

Replace the paragraph beginning at page 6, line 14, as follows:

In still another embodiment of the present invention the transition metal complex are of Formula II wherein M is a group VIII metal:  $R_1$  [[R1]],  $R_2$  [[R2]], and  $R_3$  [[R3]] are substituents on the phosphine ~~legand~~ ligand and are selected from hydrogen, alkyl, aryl, arylalkyl, or arylalkyl cycloaromatic group; X is selected from aryl sulphonato, alkyl sulphonato, aryl carbonate, alkyl carbonate, formate and a halide selected from the group consisting of [[C1]] Cl, Br, I; N-O is a semilabile anionic chelating ligand containing a ~~N-donor and O-group~~ an N donor and O<sup>-</sup> group selected from the group consisting of 8-hydroxyquinoline, 2-hydroxypyridine, 2-(2-hydroxyethyl) pyridyl-2-, piperidyl-2-, quinoly-2-, isoquinoly-1-, and isoquinolyl-3-carboxylates, particularly pyridyl-2-carboxylate; and  $1 < n < 10$ .

Replace the paragraph beginning at page 9, line 22, as follows:

The stepwise description of the heterogenization of the homogeneous palladium complex catalyst and carbonylation reaction using them is as follows. The process described in U.S. Patent 6,069,253 synthesizes the metal complex catalysts, the contents of which are incorporated herein by reference comprises reacting the group VIII metal source with a N-O semilabile chelating ligand, a monodentate phosphine ligand and the protonic acid in an organic solvent and stirring at ambient temperature for

a period of 1 to 20 minutes, precipitating the product using a suitable organic solvent, washing, drying to obtain the complex catalyst of formula II. The porous supports were treated with diaryl or dialkyl dihalosilane in a specified proportion to block the exterior surface only, typically in an experiment, the solid matrix was taken as a slurry in an organic solvent and stirred with the ~~passivating~~ blocking agent for 1 to 4 hours at ambient temperature, cooled to 190 to 200 K, the functionalization of the pretreated supports is undergone by stirring the same suspension of the support with the addition of the anchoring agent of the formula I for a period of 12 to 24 hrs. at a temperature of 313 to 343 K, thereafter filtering, washing and drying provides, the ~~fictionalized~~ functionalized porous supports. The treatment of the functionalized support with a solution of the transition metal complex in a suitable solvent and stirring at ambient temperature for about 12 to 20 hours causes the metal complex to get anchored to the porous supports. Filtering followed by thorough washing, and drying renders the solid heterogeneous catalyst.